T4 improves education quality through creative technology-based tools, dynamic partnerships and effective capacity building of teachers and education leaders.
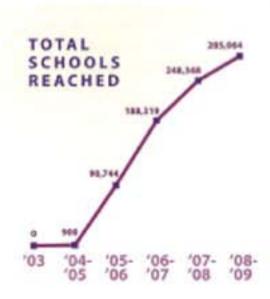
8 states. 600 technology tools. 31 million students.

T4 is about **innovation**.

Since 2002, Education Development Center, Inc. (EDC) has harnessed India's burgeoning technology sector and combined it with expertise in Information and Communication Technologies (ICTs). T4's educational tools deliver sound pedagogical content and approaches that are in sync with national curricula. Developed in India, T4's Interactive Radio Instruction (IRI), Group Teaching and Learning (GTL) Software, Digital Library, and Educational Videos are the first of their kind.

T4 is about **quality**.

Empirical results show that teachers and students who use T4's innovative tools learn more and learn better. In Karnataka State, 4th and 5th multi-grade science students show learning gains of over 20%. Similar gains across subject areas in other states make EDC's work the benchmark of quality for local and state governments when working with other education agencies.

T4 is about **reach**.

T4 solutions are designed to reach diverse populations across India, including girls and other vulnerable groups. EDC's processes and tools can be quickly adapted and replicated. Having successfully expanded from 300 to 80,000 schools in one state in a single year, EDC is well positioned to bring experience to scale in India and other countries.

TOTAL SCHOOLS REACHED

295,064

248,368

188,319

98,744

0 | 900

'03 | '04-'05 | '05-'06 | '06-'07 | '07-'08 | '08-'09

REACHING MORE, REACHING BETTER.

Technology Tools Make Teaching and Learning Fun

T4

Technology Tools are designed and tested in India. EDC uses audio, video and multimedia software to bring innovative teaching and learning to Class 1-8 students.
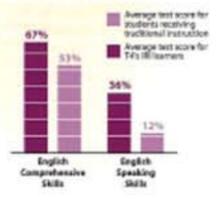
Interactive Radio Instruction (IRI)

Radio is one of the most accessible methods of information communication in India, and is a proven means to improve teaching and learning. Working closely with State governments, T4 creates curriculum-based radio programs that target learning needs defined by teachers. IRI lessons engage over 31,000,000 students through stories, songs and physical activities, while enabling teachers to practice active-learning techniques in their own classrooms. Subjects, including English, Math, Science and Social Studies are taught using the traditional instructional languages of Hindi, English and Kannada, and are broadcast via medium wave and FM radio.

IRI IMPACT ON ENGLISH TEST SCORES

- Average test score for students receiving traditional instruction
- Average test score for T4's IRI learners

English Comprehensive Skills: 67% / 53%

English Speaking Skills: 36% / 12%

Multimedia Software

T4's Group Teaching and Learning (GTL) software brings teachers and students together to conduct cooperative learning activities using a single computer. The software offers 10 hours of activities in topics like physics and environmental science-focusing students on difficult concepts in greater depth. Over 420,000 students in classes 4-8 use the software.

Educational Video

T4's educational videos motivate students and support educators in the difficult-to-teach content areas of Math, Science and Social Studies. Through a project-based learning approach, students form and test hypotheses in the interactive group projects modeled in each video. Classroom teachers facilitate the hands-on lesson using low-cost resources. More than 414,000 4th and 5th multi-grade students are reached through T4's 40 Hindi and Kannada videos distributed on CD and telecast on the Government of India's EDUSAT satellite.

Life Skills Video Series

T4's drama-based "skills for life" video series is geared towards middle-school youth as well as their teachers and parents. Topics include middle-school academics (study skills, staying in school), personal development (communicating, self-awareness) and career planning (goal setting, vocational skills). The goal is for students to deal more constructively with the many challenges facing their age group inside and outside of the classroom.

Digital Library (DL)

T4's DL improves educator access to quality materials through its searchable online catalog of audio, video and print content. Teachers can access all T4 learning materials as well as those from other public and private sector providers. Over 400 resources are available in English, Kannada, Tamil, Telugu and Oriya languages. The National Informatics Center (NIC) of Karnataka hosts the DL.

Math and Science Multimedia Kits

T4's multimedia kits strengthen critical math and science skills at the middle school level through an "inquiry-based" approach. Contents of the kits encourage students to ask questions, make predictions, design and carry out investigations, make sense of data, and communicate findings. Students understand how Math and Science are relevant to real-world situations, and how critical thinking, teamwork and problem solving skills can be applied beyond the classroom to their daily lives.

> "Learning in groups is fun and exciting... I understand the concept somewhat when my teacher teaches, but it gets clearer with the Group Teaching and Learning activities."
> —Student, Karnataka

T4 SAMPLE TRACKS

1 IRI for English as a Second Language: Learning Parts of the Body through Music
Learning English is Fun Series, Classes 1&2, Hindi, English. 1m15s.

2 IRI for Science: Understanding the Water Cycle through Role Play
Chukki Chinna Series, Classes 4&5, Kannada. 2m45s.

3 IRI for Social Studies: Making a Map
Jhil Mil Series, Classes 4&5, Hindi. 1m50s.

4 Educational Video: Math, Science and Social Studies –
Photosynthesis Classes 4&5, Kannada. 1m10s.

5 GTL Multimedia Software: Interactive Learning for the Whole Class
Ecosystems and Habitats CD, Classes 4-6, Kannada, English, Hindi. 40s.

T4 is about **sustainability**.

EDC is committed to long-term sustainability. Working in tandem with district, state and national government counterparts, EDC builds capacity and ownership at all levels. Teachers are supported through trainings, monitoring visits and follow-up sessions in and outside of the classroom. As a result, teachers teach with confidence, effectively use the technology tools and employ a dynamic, student-centered approach. Master trainers are also trained, ensuring continuous support to teachers for years to come.

T4 is about **partnerships**.

T4 works with eight state governments, 30 local Non-Governmental Organizations (NGOs) and over 100 local consultants in India. In addition, EDC's close collaboration with the Government of India has facilitated telecast of T4 educational videos on the EDUSAT satellite, and broadcast of T4 educational radio programs on FM and short wave radio. Current contributions total over $5 million.

This brochure and CD were made possible by the United States Agency for International Development (USAID). The contents are the responsibility of the Education Development Center, Inc. (EDC) and do not necessarily reflect the views of USAID or the United States Government.

T4
TECHNOLOGY TOOLS FOR TEACHING & TRAINING

CONTACT INFORMATION

INDIA
Education Development Center, Inc. (EDC)
No. 42, 39th Cross, 8th Block
Jayanagar, Bangalore – 560070
Karnataka, India
Tel: 91-80-22-44-9244/45
Fax: 91-80-22-44-9247
Email: EDCInfo_India@edc.org
www.idd.edc.org/T4India

NORTH AMERICA
Education Development Center, Inc. (EDC)
1000 Potomac Street NW, Suite 450
Washington, DC 20007
U.S.A.
Tel: +1-202-572-3700
www.idd.edc.org
www.edc.org

This brochure and CD were produced by the dot-EDU project and were made possible by the generous support of the American people through the United States Agency for International Development (USAID) under Cooperative Agreement No. 386-A-00-06-00148-00. The contents are the responsibility of Education Development Center, Inc. (EDC) and do not necessarily reflect the views of USAID or the United States Government.

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